# TRANSLATION PATENT COOPERATION TREATY

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	EOD EUDTHED ACTION	C. F. DOTTOPTA (I) C						
FP-05003PC	FOR FURTHER ACTION	See Form PCT/IPEA/416						
International application No.	International filing date (day/month/year)	Priority date (day/month/year)						
PCT/JP2005/001801	08.02.2005	09.02.2004						
International Patent Classification (IPC) or nati	onal classification and IPC							
Applicant	•							
ASKA PHARMACEUTICAL (	CO., LTD.							
This report is the international preling under Article 35 and transmitted to the second contract of the secon		is International Preliminary Examining Authority						
2. This REPORT consists of a total of	7 sheets, include	ling this cover sheet.						
3. This report is also accompanied by A		-						
a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:						
	sheets of the description. claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
		onsiders contain an amendment that goes beyond ed in item 4 of Box No. I and the Supplemental						
Box.	••	••						
b. (sent to the International	Bureau only) a total of (indicate type and num	ber of electronic carrier(s))						
		. containing a sequence listing and/or tables						
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This report contains indications relati	ng to the following items:							
	report							
Box No. II Priority								
Box No. III Non-establi	shment of opinion with regard to novelty, inv	entive step and industrial applicability						
Box No. IV Lack of uni	ty of invention							
	Box No. V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement							
Box No. VI Certain doc	ruments cited							
Box No. VII Certain def	ects in the international application							
Box No. VIII Certain observations on the international application								
Date of submission of the demand	Date of completion of	this report						
		•						
Name and mailing address of the IPEA/JP	Authorized officer							
Facsimile No.	Telephone No.							

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2005/001801

Вох	No. I	Basis of the report				
1.	With indic	n regard to the language, this report is based on the internation cated under this item.	nal application in the language in which it	was filed, unless otherwise		
		This report is based on translations from the original language which is the language of a translation furnished for the purposition international search (Rule 12.3 and 23.1(b))  publication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/o	oses of:	·		
2.	recei	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the ecciving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to his report):  the international application as originally filed/furnished the description:				
		pages	•	as originally filed/furnished		
		pages*				
	$\Box$	pages* the claims:	received by this Authority on			
		nos.		as originally filed/furnished		
		nos.*	as amended (together with a	ny statement) under Article 19		
		nos.*	received by this Authority on			
		nos.*	received by this Authority on			
		the drawings:				
		sheets		as originally filed/furnished		
		sheets*	received by this Authority on			
		sheets*	received by this Authority on			
		a sequence listing and/or any related table(s) - see Supplement	ental Box Relating to Sequence Listing.			
3.	Ш	The amendments have resulted in the cancellation of:				
		the description. pages				
		the claims. nos.				
		any table(s) related to sequence listing (specify):		<del></del>		
4.	L	This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as fil	led, as indicated in the Supplemental Box	(Rule 70.2(c)).		
		the description. pages				
		the claims, nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
	If it a	any table(s) related to sequence listing (specify):  em 4 applies, some or all of those sheets may be marked "supe	erseded "			
	-,	person come or an of mose success may be marked supe				

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Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:						
the entire international application						
claims Nos. 18						
because:						
the said international application, or the said claims Nos. 18 relate to the following subject matter which does not require an international preliminary examination (specify):						
The subject matter of claim 18 relates to methods						
for treatment of the human body by therapy.						
the description, claims or drawings (indicate particular elements below) or said claims Nos.  are so unclear that no meaningful opinion could be formed (specify):						
the claims, or said claims Nos are so inadequately supported						
by the description that no meaningful opinion could be formed.						
no international search report has been established for said claims Nos. 18						
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:						
the written form has not been furnished						
does not comply with the standard						
the computer readable form has not been furnished						
does not comply with the standard						
the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.						
See Supplemental Box for further details.						

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Вом	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement			-	
	Novelty (N)	Claims	1-17	YES	
	Inventive step (IS)	Claims		YES	
		-	1-17	_	
	Industrial applicability (IA)				
	TP		1-17		
2.	2. Citations and explanations (Rule 70.7)				
	The following do	ocumer	nts were cited in the international		
	search report.				
	Document 1: The	Ameri	ican Journal of Cardiology, 2002,		
	Vol	. 89,	pages 1308 to 1310		
	Document 2: JP 2	2002-5	502869 A		
	Document 3: WO	2003/0	082283 A2		
	Document 4: NEW	Yakur	rigaku (3 <sup>rd</sup> Edition), Nankodo, 25		
	Nov	vember	1996, pages 403 to 405 and 504 to		
	506	5			
	Document 5: Euro	opean	Journal of Internal Medicine, 2003,		
	Vol	14,	pages 357 to 360		
	Document 6: JP	1-7183	13 A		
		nyouby to 22	you, 1994, Vol. 37, Number 1, pages		
	(1) Inventive S	tep of	f Claims 1 to 9 and 11 to 17/Document		
	Document 1	indi	cates that atorvastatin or		
	simvastatin whi	ch are	e remedies for hyperlipemia are		
	administered to	gethe	r with acarbose, which is a remedy		
	for diabetes (t	able :	l, page 1309, left column, lines 1 to		
	6)				

That being the case, it would be obvious to a person

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

skilled in the art to use a pharmaceutical combining atorvastatin or simvastatin with acarbose in the treatment of hyperlipemia or diabetes.

(2) Inventive Step of Claims 1 to 9 and 11 to 17/Documents 1 to 4

In addition to the matters set forth in (1) above, documents 2 and 3 indicate that a remedy for diabetes is administered together with a remedy for hyperlipemia to treat both disorders in an integrated manner, therefore it would be obvious to a person skilled in the art to employ a hydroxymethyl-CoA reductase inhibitor such as pravastatin, a typical example as set forth in document 4, as a remedy for hyperlipemia in the invention set forth in document 1, and to employ an  $\alpha$ -glucosidase inhibitor such as voglibose, which is a typical example as set forth in document 4, and to use the resultant pharmaceutical in the treatment of hyperlipemia or diabetes (document 2, paragraph [0006]; document 3, page 2, lines 4 to 13; page 3, lines 10 to 15; document 4, etc.).

(3) Inventive Step of Claims 1 to 17/Documents 2 to 6
With regard to phenofibrate which is a fibrate-based remedy for the treatment of hyperlipemia, document 5
indicates that phenofibrate reduces the blood-sugar level when the stomach is empty or after a meal, and document 2
indicates that phenofibrate reduces the blood-sugar level (document 2, paragraphs [0031] to [0035]; document 5, page 359, table 2).

With regard to bezafibrate, which is a fibrate

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remedy for hyperlipemia, is used together with sulfonylurea, which is a remedy for diabetes, to control blood-sugar levels and blood-cholesterol levels (see page 18, tables 1 and 2 and page 19, table 4).

In addition, as set forth in (2) above, documents 2 and 3 indicate that a remedy for diabetes and a remedy for hyperlipemia are combined in an attempt to treat both disorders in an integrated manner (see the parts of documents 2 and 3 indicated in (2) above).

That being the case, it would be obvious to a person skilled in the art to use an invention obtained by using an  $\alpha$ -glucosidase inhibitor such as voglibose, which is a foremost example as set forth in document 4, as a remedy for diabetes, taking into account documents 2 and 3, in the invention set forth in document 7, in the treatment of hyperlipemia or diabetes. Moreover, with regard to remedies for hyperlipemia, it would be obvious to a person skilled in the art to use a fibrate agent such as phenofibrate, which is a typical remedy for hyperlipemia, as set forth in documents 2 and 4, as an alternative to bezafibrate, in the light of documents 2 and 3 (document 2, paragraph [0003]).

Moreover, even in reference to the description, there are no grounds to prove that the aforementioned selective matter would offer a special and marked effect which would be unexpected to a person skilled in the art.

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remedy for hyperlipemia, document 6 indicates that bezafibrate reduces the blood-sugar level when the stomach is empty or after a meal, and document 2 indicates that phenofibrate reduces the blood-sugar level (document 2, paragraphs [0031] to [0035]; document 6, entire document).

Then, as indicated in (2) above, documents 2 and 3 indicate that a remedy for diabetes and a remedy for hyperlipemia are combined in an attempt to treat both disorders in an integrated manner (see the parts of documents 2 and 3 indicated in (2) above).

That being the case, in order to produce a pharmaceutical having an outstanding effect of lowering blood-sugar levels and an effect of improving hyperlipemia, it would be obvious to a person skilled in the art to combine a fibrate compound such as phenofibrate or bezafibrate and an  $\alpha$ -glucosidase such as voglibose, which is a foremost remedy for diabetes as set forth in document 4, taking into account documents 2, 3, 5 and 6.

Moreover, in examining the effect of lowering bloodsugar levels offered by the combined pharmaceutical of the present invention, the effect is acknowledged to be of the degree of an added effect, and no comparison is shown with a combination of a fibrate and a diabetes remedy other than metformin, therefore this effect is not acknowledged to be special.

(4) Inventive Step of Claims 1 to 17/Documents 2 to 4 and  $\overline{\phantom{a}}$ 

Document 7 indicates that bezafibrate, a fibrate